Project Owner:	Trenton Public Schools
Project Name:	District Technology Renovations
Issue Date:	December 21, 2023

ADDENDUM NO. 2

This Addendum No. 2 of the <u>Technology Request for Bid</u> for the above referenced project hereby amends, supplements and/or augments all prior issued document(s) as described herein, and becomes an inseparable part of the Contract Documents, superseding all previous, contrary and/or conflicting information.

	Section 27 21 19 2.09 is hereby revised as follows:
	2.09 NETWORK SWITCHES
	A. One (1) – Twenty-Four (24) port Network Core Switches shall be provided and installed in locations identified on Appendix C, meeting or exceeding the following features, ports and capabilities:
	1. 10GB Ethernet port(s) shall be provided per switch as identified below with appropriate SMF SFP+ optics packages (if applicable) for building connection using external and internal single mode as described herein.
AD2 - 1	a. Two (2) ports shall be provided for interconnection of network core switches in a resilient configuration. Switches shall be stacked and configured in a single logical unit.
	b. All remaining ports shall be SFP+ capable.
	2. Switches shall provide aggerate bandwidth of 20Gb (10+10) on active/active links across switches to all dual connected devices and facilities.
	3.Switches shall provide for management of full layer 3 controls and feature set as an integrated unit – not as two separate switches.
	4. Switches shall include N+1 load balancing, hot swappable, power supplies.

	Section 27 21 19 2.10 is hereby revised as follows and supersedes any changes made in Addendum #1.		
	2.10 DEVICE DISTRIBUTION SWITCHES		
	A. Stackable Device Distribution Switches shall be provided in locations identified on Appendix C. Quantity shall be referenced on Appendix C Switches shall be installed to facilitate cross connection of all station cables in the district connecting network devices.		
	B.Switches shall replace and expand upon the variety of existing device distribution switches currently deployed across the district.		
	C.Switch shall be complete with associated optics, stacking cables and options for a fully functional and operation system.		
	D. Switches provided shall meet or exceed the following:		
	1. Forty-Eight (48) 10/100/1000 UTP Ethernet ports.		
	2. Four (4) 10GB Ethernet SFP+ based port per stack.		
AD2 - 2	3. Adequate stacking cables and/or ports to facilitate configuration of stack with no more than 384 ports per stack and as described in associated appendices and described herein.		
	4. Switches shall be stackable and support 384 ports per stack with a single IP address		
	5. Switches shall support uplink trunking across the stack		
	6. IEEE 802.1p QoS with 4 ques per port.		
	7. SNMPv1/v2c/v3		
	8.802.1X and Protocol based VLAN support.		
	9. IEEE 802.3ad Link Aggregation (LACP).		
	10. Broadcast, Unicast and Multicast traffic suppression.		
	11. IGMP Snooping		
	12. DHCP Helper		
	13. IEEE 802.1X Port Based Network Access Control		

14. Power over Ethernet Plus (PoE+)
a. All Device Distribution switches provided shall be 802.3at PoE+ compliant.
b. Each switch shall have a PoE power budget of 720 Watts with a single power supply and be upgradable to a total power budget of 1440 Watts in the future with the addition of a second power supply.
15. Contractors shall supply all cables (excepting SMF patch cords provided by others as described herein), optics, licensing and labor to enable two (2) 10Gbe connections to all device distribution stacks.

END OF ADDENDUM NO. 2